

Table A-13. Federal funds for industrial R&amp;D performance in the U.S., by industry and size of company: 1999-2001

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Industry and size of company	NAICS codes	1999 <sup>1</sup>	2000	2001 <sup>2</sup>
		[In millions of dollars]		
Distribution by industry:				
All industries	21-23, 31-33, 42, 44-81	22,535	19,118	16,899
Manufacturing	31-33	17,055	13,328	11,484
Food	311	0	(D)	0
Beverage and tobacco products	312	0	0	0
Textiles, apparel, and leather	313-16	0	(D)	(D)
Wood products	321	0	0	0
Paper, printing and support activities	322, 323	(D)	(D)	(D)
Petroleum and coal products	324	(D)	(D)	(D)
Chemicals	325	194	150	180
Basic chemicals	3251	98	31	42
Resin, synthetic rubber, fibers, and filament	3252	(D)	11	(D)
Pharmaceuticals and medicines	3254	(D)	(D)	0
Other chemicals	325 minus (3251-52, 3254)	(D)	(D)	(D)
Plastics and rubber products	326	0	(D)	(D)
Nonmetallic mineral products	327	(D)	1	11
Primary metals	331	12	26 (S)	6
Fabricated metal products	332	46	41	54
Machinery	333	399 (S)	41	67
Computer and electronic products	334	5,993	5,544	5,848
Computers and peripheral equipment	3341	(D)	0	(D)
Communications equipment	3342	206	432	298
Semiconductor and other electronic components	3344	77	107	148
Navigational, measuring, electromedical, and control instruments	3345	5,705	5,002	5,382
Other computer and electronic products	334 minus (3341-42, 3344-45)	(D)	3	(D)
Electrical equipment, appliances, and components	335	(D)	(D)	301 (S)
Transportation equipment	336	10,037	7,168	4,961
Motor vehicles, trailers, and parts	3361-63	(D)	(D)	(D)
Aerospace products and parts	3364	9,117	6,424	3,785
Other transportation equipment	336 minus (3361-64)	(D)	(D)	(D)
Furniture and related products	337	0	0	0
Miscellaneous manufacturing	339	26	12	25
Medical equipment and supplies	3391	(D)	(D)	(D)
Other miscellaneous manufacturing	339 minus (3391)	(D)	(D)	(D)
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--

See explanatory information and SOURCE at end of table.

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Industry and size of company	NAICS codes	1999 <sup>1</sup>	2000	2001 <sup>2</sup>
		[In millions of dollars]		
Distribution by industry:				
Nonmanufacturing	21-23, 42, 44-81	5,479	5,790	5,415
Mining, extraction, and support activities	21	(D)	1	(D)
Utilities	22	17	(D)	19
Construction	23	2	(D)	1
Trade	42, 44, 45	95	30	88
Transportation and warehousing	48, 49	0	(D)	72
Information	51	497	540 (S)	(D)
Publishing	511	49	78	44
Newspaper, periodical, book, and database	5111	0	0	0
Software	5112	49	78	44
Broadcasting and telecommunications	513	(D)	382 (S)	(D)
Radio and television broadcasting	5131	(D)	(D)	0
Telecommunications	5133	(D)	(D)	(D)
Other broadcasting and telecommunications	513 minus (5131, 5133)	13	0	0
Other information	51 minus (511, 513)	(D)	81	(D)
Finance, insurance, and real estate	52, 53	(D)	0	(D)
Professional, scientific, and technical services	54	4,615	4,628	5,065
Architectural, engineering, and related services	5413	1,177	1,149	1,021
Computer systems design and related services	5415	(D)	226	498
Scientific R&D services	5417	3,057	3,177	3,352
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	(D)	77	194
Management of companies and enterprises	55	(D)	0	0
Health care services	621-23	10	59	29
Other nonmanufacturing	56, 61, 624, 71, 72, 81	(D)	18	38

See explanatory information and SOURCE at end of table.

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Industry and size of company		1999 <sup>1</sup>	2000	2001 <sup>2</sup>
		[In millions of dollars]		
Distribution by size of company: [Number of employees]				
Total		22,535	19,118	16,899
5 to 24		611	922	653
25 to 49		368	222	201
50 to 99		603	514	548
100 to 249		674	669	903
250 to 499		485	660	560
500 to 999		591	495	627
1,000 to 4,999		896	775	608
5,000 to 9,999		2,194	1,625	1,651
10,000 to 24,999		397	678	904
25,000 or more		15,717	12,559	10,243

<sup>1</sup> Some statistics for 1999 have been revised since originally published.

<sup>2</sup> Beginning with 2001, statistics for total and Federally funded industrial R&D exclude data for Federally Funded Research and Development Centers (FFRDCs).

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.

(S) = Indicates imputation of more than 50 percent.

(--) = Indicates data not collected.

NOTES: The R&D in this table is the industrial R&D performed within company facilities funded by the Federal Government. Excluded from this table are R&D not performed within the company (e.g., R&D contracted out to other organizations) and R&D not performed within the 50 U.S. states or D.C. (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).

For 1999, 2000, and 2001, the frame from which the statistical samples were selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, in prior reports detailed industry statistics were published only from the large company partition; detailed industry statistics from the small company partition were not. Statistics from the small company partition were included in the manufacturing, nonmanufacturing, and all industries totals, but were aggregated into "small manufacturing" and "small nonmanufacturing" classifications instead of being included in their respective industry classifications. For this report, this practice was evaluated and discontinued because it was determined that the data for small companies are more useful if they are included in their respective industries even given the sampling concerns described above. Consequently, the "small manufacturing" and "small nonmanufacturing" stublines are no longer present. For 1999 and 2000, statistics previously published for the firms in the small company classifications are not shown separately in this table, but are included in the manufacturing, nonmanufacturing, and all industries totals. For more information, see the technical notes in Survey of Industrial Research and Development methodology: 2001 at <http://www.nsf.gov/sbe/srs/sird/start.htm>.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2001